| Issue Classification |  |  |  |  |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|--|--|--|--|
|                      |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s) |  |  |  |  |  |  |  |  |
|-----------------|--------------|--|--|--|--|--|--|--|--|
| 10/705,897      | KIM ET AL.   |  |  |  |  |  |  |  |  |
| Examiner        | Art Unit     |  |  |  |  |  |  |  |  |
|                 | ]            |  |  |  |  |  |  |  |  |
| James A. Dudek  | 2871         |  |  |  |  |  |  |  |  |

| ORIGINAL                           |          |             |                                       |          |              | CROSS REFERENCE(S) |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|------------------------------------|----------|-------------|---------------------------------------|----------|--------------|--------------------|-----------------------------------|--------|------------|------------|---------|-----------------|------------|--|--------------------------|----------------|----|-------|---------------|--|
| CLASS SUBCLASS                     |          |             |                                       |          |              | CLASS              | SUBCLASS (ONE SUBCLASS PER BLOCK) |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
| 34                                 | 19       |             | 129                                   | )        |              | 349                | 1                                 | 30     |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          | NAI CI      | ASSIFIC                               |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             |                                       |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
| 0                                  | 2        | F           | 1/1                                   | 3        |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             | /                                     |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             |                                       |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             | · · · · · · · · /                     |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             | · · · · · · · · · · · · · · · · · · · |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             |                                       |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    |          |             |                                       |          |              |                    |                                   | Λ      | /          |            |         |                 |            |  |                          |                |    |       |               |  |
| (Assistant Examiner) (Date)        |          |             |                                       |          |              |                    |                                   | / / /  | <b>ጎ</b> / | /          |         |                 |            |  | Total Claims Allowed: 23 |                |    |       |               |  |
| $\mathcal{M}$                      | (Assi    | stant E     | xamine                                | r) (C    | ate)         |                    | 1                                 | 1      | oe A       | . Dud      | مار 1 م | /28/0           | 1          |  |                          |                |    |       |               |  |
| X U                                | 7011     |             | 1                                     |          | //           | ,                  |                                   | - Vall | ies v      | . Uuu      | ek iv   | ,, <u>20,</u> 0 | 7          |  |                          | O.G.<br>Claim( | e1 |       | .G.<br>t Fig. |  |
| $(\mathbf{I} \mathcal{J} \lambda)$ | egal In  | strume      | nts Exa                               | miner\   | 1 //<br>(Dat | <i>4</i> 01        |                                   | (Pri   | mary Exa   | aminer)    |         | (Date)          |            |  |                          | -:4IIII\       | ~, |       |               |  |
| Y                                  | -941 III | J.I. WILLIE | <u></u>                               |          | , Dat        | ~/                 |                                   |        |            |            |         |                 |            |  |                          | 1              |    | 5     | ib            |  |
|                                    |          |             |                                       |          |              |                    |                                   |        |            |            |         |                 |            |  |                          |                |    |       |               |  |
|                                    | laims    | renu        | mbere                                 | d in th  | e san        | ne orde            | er as. <sub>I</sub>               | oresen | ted by     | y appli    | cant    | c               | PA         |  |                          | .D.            | ı  | ☐ R   | 1.47          |  |
| =                                  | <u> </u> |             | _                                     | <u> </u> |              | _                  | <u>ब</u>                          |        | _          | la l       |         | =               | اعظ        |  | =                        | 펼              |    | _     | 힐             |  |
| Final                              | Original |             | Final                                 | Original |              | Final              | Original                          |        | Final      | Original   |         | Final           | Original   |  | Final                    | Original       |    | Final | Original      |  |
| , u.                               | ō        |             | L                                     | ō        |              | L                  | Ō                                 |        | "          | Ō          |         | ш               | ō          |  | L                        | ō              |    | "     | ō             |  |
| 1                                  | 1        | 1           | 3                                     | 31       | İ            |                    | 61                                | 1      |            | 91         |         |                 | 121        |  |                          | 151            |    |       | 181           |  |
|                                    | 2        |             | 4                                     | 32       | ]            |                    | 62                                |        |            | 92         |         |                 | 122        |  |                          | 152            |    |       | 182           |  |
|                                    | 3        |             | 5                                     | 33       |              |                    | 63                                |        |            | 93         |         |                 | 123        |  |                          | 153            |    |       | 183           |  |
|                                    | 4        |             | 6                                     | 34       |              |                    | 64                                |        |            | 94         |         |                 | 124        |  |                          | 154            |    |       | 184           |  |
| ļ                                  | 5        | -           | 7                                     | 35       |              | · ·-               | 65                                |        |            | 95         |         |                 | 125        |  |                          | 155            |    |       | 185           |  |
| <del></del>                        | 6<br>7   | 1           | <u>8</u><br>9                         | 36<br>37 |              |                    | 66<br>67                          | -      | -          | 96<br>97   |         |                 | 126<br>127 |  |                          | 156<br>157     |    |       | 186<br>187    |  |
|                                    | 8        | 1           | 10                                    | 38       |              |                    | 68                                | ł      | -          | 98         |         |                 | 128        |  |                          | 158            |    |       | 188           |  |
|                                    | 9        | 1           | 11                                    | 39       |              |                    | 69                                | ł      |            | 99         |         |                 | 129        |  |                          | 159            |    |       | 189           |  |
|                                    | 10       | 1           | 12                                    | 40       | 1            |                    | 70                                |        |            | 100        |         |                 | 130        |  |                          | 160            |    |       | 190           |  |
|                                    | 11       | ]           | 13                                    | 41       | ]            |                    | 71                                | ]      |            | 101        |         |                 | 131        |  |                          | 161            |    |       | 191           |  |
|                                    | 12       | 1           | 14                                    | 42       |              |                    | 72                                | ]      |            | 102        |         |                 | 132        |  |                          | 162            |    |       | 192           |  |
|                                    | 13       | 1           | 15                                    | 43       |              |                    | 73                                | [      |            | 103        |         |                 | 133        |  |                          | 163            |    |       | 193           |  |
| ·                                  | 14       |             | 16                                    | 44       |              |                    | 74                                | -      | <u> </u>   | 104        |         |                 | 134        |  |                          | 164            |    |       | 194           |  |
|                                    | 15<br>16 | 1           | 17                                    | 45<br>46 |              | -                  | 75<br>76                          | -      |            | 105<br>106 |         |                 | 135        |  |                          | 165            |    |       | 195           |  |
|                                    | 17       | 1           | 19                                    | 46       |              |                    | 77                                | 1      |            | 106        |         |                 | 136<br>137 |  |                          | 166<br>167     |    |       | 196<br>197    |  |
| -                                  | 18       | 1           | 20                                    | 48       |              | -                  | 78                                | 1      |            | 108        |         |                 | 138        |  |                          | 168            |    |       | 198           |  |
|                                    | 19       | 1           | 21                                    | 49       |              |                    | 79                                | 1      |            | 109        |         |                 | 139        |  |                          | 169            |    |       | 199           |  |
|                                    | 20       | ]           | 22                                    | 50       |              |                    | 80                                | 1      |            | 110        |         |                 | 140        |  |                          | 170            |    |       | 200           |  |
|                                    | 21       | ]           | 23                                    | 51       |              |                    | 81                                | ]      |            | 111        |         |                 | 141        |  |                          | 171            |    |       | 201           |  |
|                                    | 22       | 1           |                                       | 52       |              |                    | 82                                | 1      |            | 112        |         |                 | 142        |  |                          | 172            |    |       | 202           |  |
| -                                  | 23       | 1           |                                       | 53       |              |                    | 83                                |        | ,          | 113        |         |                 | 143        |  |                          | 173            |    |       | 203           |  |
|                                    | 24       | -           |                                       | 54       |              |                    | 84                                | -      | <u> </u>   | 114        |         |                 | 144        |  |                          | 174            |    |       | 204           |  |
| -                                  | 25<br>26 | -           |                                       | 55<br>56 |              |                    | 85                                | 1      |            | 115        |         |                 | 145        |  |                          | 175            |    |       | 205           |  |
| -                                  | 27       | 1           |                                       | 57       |              | $\vdash$           | 86<br>87                          | 1      | <u> </u>   | 116<br>117 |         |                 | 146<br>147 |  |                          | 176<br>177     |    |       | 206<br>207    |  |
| -                                  | 28       | 1           | <b></b>                               | 58       |              | $\vdash$           | 88                                | 1      |            | 118        |         |                 | 148        |  |                          | 178            |    |       | 208           |  |
| <b>-</b>                           | 20       | 1           | <b></b>                               | 50       | 1            |                    | 00                                | 1      | ⊢          | 110        |         | <u> </u>        | 140        |  | <u> </u>                 | 170            | l  |       | 200           |  |

ISSUE CLASSIFICATION